1-2. Technical Specifications

■ INPUT A CHARACTERISTICS

FREQUENCY RANGE	:	0.1 Hz to 150 MHz(DC coupled) 30 Hz to 150 MHz(AC coupled)
SENSITIVITY	:	0.1 Hz to 100 MHz : 25mV. 100 MHz to 150 MHz : 50 mV.
COUPLING	:	AC or DC Selectable.
IMPEDANCE	:	1 M Ω Resistance. Shunted by < 40 pF.
ATTENUATOR	:	× 1 or × 10 Switch Selectable.
LOW PASS FILTER	:	-3 dB Point of 100 KHz, Switch Selectable

Resolution and Number of displayed digit

Time Base Selector	INT	EXT	INT	EXT	INT	EXT	INT	EXT
Gate Time	0.01S		0.1S		1S		10S	
Number of Display Digit	5	6	6	7	7	8	8	9
Frequency	RESOLUTION							
0.1 Hz - 0.99 Hz	10 uHz	1 uHz	1 uHz	0.1 uHz	0.1 uHz	10 nHz	10 nHz	1 nHz
1 Hz - 9.9 Hz	0.1 mHz	10 uHz	10 uHz	1 uHz	1 uHz	0.1 uHz	0.1 uHz	10 nHz
10 Hz - 99 Hz	1 mHz	0.1 mHz	0.1 mHz	10 uHz	10 uHz	1 uHz	1 uHz	0.1 uHz
100 Hz - 999 Hz	10 mHz	1 mHz	1 mHz	0.1 mHz	0.1 mHz	10 uHz	10 uHz	1 uHz
1 KHz - 9.9 KHz	0.1 Hz	10 mHz	10 mHz	1 mHz	1 mHz	0.1 Hz	0.1 mHz	10 uHz
10 KHz - 99 KHz	1 Hz	0.1 Hz	0.1 Hz	10 mHz	10 mHz	1 mHz	1 mHz	0.1 mHz
100 KHz - 999 KHz	10 Hz	1 Hz	1 Hz	0.1 Hz	0.1 Hz	10 mHz	10 mHz	1 mHz
1 MHz - 9.9 MHz	100 Hz	10 Hz	10 Hz	1 Hz	1 Hz	0.1 Hz	0.1 Hz	10 mHz
10 MHz - 99 MHz	1 KHz	100 Hz	100 Hz	10 Hz	10 Hz	1 Hz	1 Hz	0.1 Hz
100 MHz - 150 MHz	10 KHz	1 KHz	1 KHz	100 Hz	100 Hz	10 Hz	10 Hz	1 Hz

ACCURACY : ±Time base Error ±Resolution

(Table 1)

Max. Input Voltage Level

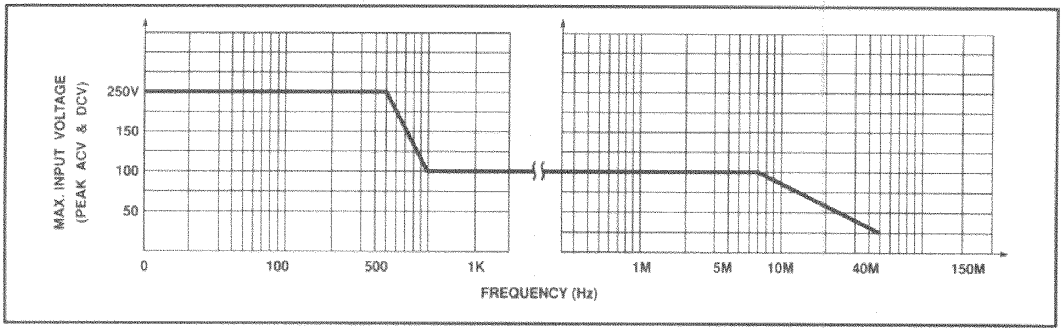

FIG.1 MAX. Input Level. (INPUT A)

PERIOD RANGE : 6.7 nS to 10 S
DISPLAY : n. u. m., Sec with decimal point

TOTAL RANGE : DC to 30 MHz
CAPACITY : 0 to 999 999 999
OVER FLOW : "OF"

RPM RANGE : 0.6 to 999 999 999 RPM
OVER FLOW : "OF"

■ INPUT C. CHARACTERISTICS

FREQUENCY RANGE : 50 MHz to 1.5 GHz

SENSITIVITY : 50 MHz to 1100 MHz: 35 mV
: 1100 MHz to 1.5 GHz: 70 mV

COUPLING : AC only

IMPEDANCE : 50 Ω ±5%

MAX. INPUT LEVEL : 3 Vrms sine wave

Resolution and Number of displayed digit

Time Base Selector	INT	EXT	INT	EXT	INT	EXT	INT	EXT
Gate Time	0.01S		0.1S		1S		10S	
Number of Display Digit	5	6	6	7	7	8	8	9
Frequency(input C)	RESOLUTION							
50 MHz - 99 MHz	1 KHz	100 Hz	100 Hz	10 Hz	10 Hz	1 Hz	1 Hz	0.1 Hz
10 MHz - 999 MHz	10 KHz	1 KHz	1 KHz	100 Hz	100 Hz	10 Hz	10 Hz	1 Hz
1 GHz - 1.5 GHz	100 KHz	10 KHz	10 KHz	1 KHz	1 KHz	100 Hz	100 Hz	10 Hz

(Table 2)

■ TIME BASE CHARACTERISTICS

TYPE : TCO (Temperature controlled oscillator)

FREQUENCY : 10.000000 MHz

STABILITY : ±1 PPM(±1 count)

LINE VOLTAGE STABILITY : Less than ±1 PPM with ±10% line voltage variation.

TEMPERATURE STABILITY : ±5 PPM from 0℃ to 50℃

MAX. AGING RATE : ±5 PPM/year

INT. STD. OUT : 10 MHz(internal standard frequency output)
LEVEL : 1.0 Vp-p or more
IMPEDANCE : Approx. 600 Ω

EXT. STD. IN : 10 MHz(external standard frequency input)
LEVEL : 1.5Vrms to 5Vrms
IMPEDANCE : Approx. 600 Ω

■ DISPLAY CHARACTERISTICS

DISPLAY : Nine Digit 0.56" LED with M/n, K/u, Hz, m, Sec, G.T, Hold, and "OF" indicators. Function and Gate time: User Selected.
"OF" Display Shown When Count exceeds 999 999 999

HOLD : In Frequency and Period, TOTAL, RPM. modes, measurement in progress is stopped, and the last complete measurement is displayed. When Hold is released, a new measurement begins.

GATE TIME : Depending on input frequency
< 10mS ---------- Somewhere between 0.9mS and 9mS
< 0.1S ---------- Somewhere between 9mS and 90mS
< 1S ---------- Somewhere between 90mS and 900mS
< 10S ---------- Somewhere between 0.9S and 9S

NOTE

LAST MEASUREMENT DISPLAY WILL REMAIN FOR 10 SECONDS AFTER SIGNAL OFF.

■ DIMENSION AND WEIGHT

Dimensions : 255(W) × 90(H) × 255(D)mm
Weight : Approx. 2.0 kg.

1-3. Equipment Ratings

- Power & Fuse Ratings

Input Voltage	Fuse	Power Max.
103 ~ 126V AC(50/60Hz)	F 0.5A 250V	10W
206 ~ 252V AC(50/60Hz)	F 0.25A 250V	10W

- Operating Environment

TEMPERATURE : 0℃ to + 40℃ (Accuracy Specified at 25℃ ±5℃)
HUMIDITY : up to 85% to 40℃ without temperature extremes causing condensation within the instrument.

- Storage Environment

TEMPERATURE : -20℃ to +70℃
HUMIDITY : below 85% RH

- Insulation Category II : Portable equipment of local level.
- Pollution Degree : 2
- Protection to IEC 529 : Ordinary